

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicants: Benjamin P. Warner et al.      Docket No.: S-100,585  
Serial No.:      Examiner:  
Filed :      Art Unit:  
For : METHOD AND APPARATUS FOR  
DETECTING CHEMICAL BINDING

Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 CFR 1.56, 1.97, AND 1.98**

Sir:

The documents listed below, copies attached, are submitted in compliance with the duty of disclosure defined in 37 CFR 1.56.

1. D. Allen Annis et al., "Method for Identifying Compounds in a Chemical Mixture," U. S. Patent 6,147,344, issued November 14, 2000.
2. Jonathan A. Ellman et al., "Pharmacophore Recombination for the Identification of Small Molecule Drug Lead Compounds," U. S. Patent 6,344,344, issued February 5, 2002.

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**CERTIFICATE OF MAILING/TRANSMISSION (37 CFR 1.8(a))**

I hereby certify that this correspondence is, on the date shown below, being:

**MAILING**  
☒ deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to the:  
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☐ transmitted by facsimile to the  
United States Patent and Trademark Office.

Date July 16, 2003

Samuel L. Borkowsky  
Signature  
Samuel L. Borkowsky  
(type or print name of person certifying)

3. Ole Hindsgaul et al., "Apparatus for Screening Compound Libraries," U. S. Patent 6,395,169, issued May 28, 2002.
4. Anders Hanning, "Method of Assaying For An Analyte Using Surface Plasmon Resonance," U. S. Patent 5,641,640, issued June 24, 1997.
5. Magnus Malmqvist et al., "Analyte Detection," U. S. Patent 5,965,456, issued October 12, 1999.
6. Benjamin P. Warner et al., "Method for Detecting Binding Events Using Micro-X-Ray Fluorescence Spectrometry," U. S. Patent Application Publication US2003/0027129, published February 6, 2003.
7. George J. Havrilla et al., "Flow Method and Apparatus for Screening Chemicals Using Micro X-Ray Fluorescence," U. S. Patent application serial number 10/206,524, filed July 25, 2002.
8. Bruce Alberts, Dennis Bray, Julian Lewis, Martin Raff, Keith Roberts, and James D. Watson, "Molecular Biology of the Cell," Second Edition, pp. 159-160, 1989.
9. M. C. Ringo, M. S. Huhta, G. Shea-McCarthy, J. E. Penner-Hahn, and C. E. Evans, "On-Line X-ray Fluorescence Detection for Capillary Electrophoresis Separations," Nuclear Instruments and Methods in Physics Research B, vol. 149, pp. 177-181, 1999.
10. Stephanie E. Mann, Moira C. Ringo, Grace Shea-McCarthy, James Penner-Hahn, and Christine E. Evans, "Element-Specific Detection in Capillary Electrophoresis Using X-ray Fluorescence Spectroscopy," Anal. Chem, vol. 72, no. 8, pp. 1754-1758, 2000.
11. C. Vogt, J. Vogt and H. Wittrisch, "Element-Sensitive X-ray Detection for Capillary Electrophoresis," Journal of Chromatography A, vol. 727, pp. 301-310, 1996.
12. Thomasin C. Miller, Martha R. Joseph, George J. Havrilla, Cris Lewis, and Vahid Majid, "Capillary Electrophoresis Micro X-ray Fluorescence: A Tool for Benchtop Elemental Analysis," Analytical Chemistry, vol. 75, pp. 2048-2053, 2003.

This Information Disclosure Statement is not to be construed as a representation that a search has been made or that additional matter material to the examination of this application does not exist. Applicant does not believe that any of these citations constitutes prior art under 35 U.S.C. 102.

It is requested that the above citations be made of record in the prosecution of this application.

Respectfully submitted,

Date: July 16, 2003

Samuel L. Borkowsky  
Signature of Agent

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Form PTO-1449 U.S. Department of Commerce (Modified) Patent and Trademark Office  <div style="text-align: center;"><b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b></div>  37 CFR 1.98(b)	Attorney Docket No.  S-100,585	Serial No.  
Applicant(s)  Benjamin P. Warner et al.		
Filing Date		Group

**U.S. PATENTS DOCUMENTS**

EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUB CLASS	FILING DATE
	6 1 4 7 3 4 4	11/14/2000	D. Allen Annis et al.	250	281	01/19/1999
	6 3 4 4 3 3 4	02/05/2002	Jonathn A. Ellman et al.	435	7.1	03/26/1999
	6 3 9 5 1 6 9	05/28/2002	Ole Hindsgaul et al.	210	198.2	10/05/1999
	5 6 4 1 6 4 0	06/24/1997	Anders Hanning	435	7.92	06/29/1993
	5 9 6 5 4 5 6	10/12/1999	Magnus Malmqvist et al.	436	514	04/29/1997

**FOREIGN PATENT DOCUMENTS**

EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	COUNTRY	CLASS	SUB CLASS	Translation YES NO

**OTHER DOCUMENTS** (Including Author, Title, Date, Place of Publication)

	George J. Havrilla et al., "Flow Method and Apparatus for Screening Chemicals Using Micro X-Ray Fluorescence," U. S. Patent application serial number 10/206,524, filed July 25, 2002
	Bruce Alberts, Dennis Bray, Julian Lewis, Martin Raff, Keith Roberts, and James D. Watson, "Molecular Biology of the Cell," Second Edition, pp. 159-160, 1989
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EXAMINER:	DATE CONSIDERED:

\*EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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